

What Is Claimed Is:

1. A device for triggering at least one deceleration device and/or one output-determining actuator element of a vehicle propulsion system, in particular for automatic longitudinal vehicle regulation and/or object identification, wherein a first surroundings sensing device is provided which provides longitudinal value-optimized measured values; a second surroundings sensing device is provided which provides object lateral extension-optimized measured values, and an analyzer device is provided, which receives the output signals of the first and second surroundings sensing devices, and the measured values of both the first and second surroundings sensing devices are used for object identification and/or triggering of the at least one deceleration device and/or of the output-determining actuator element of the propulsion system.

2. The device as recited in Claim 1, wherein the measured values of the second surroundings sensing device are used for verification and/or provision of additional information in analyzing the measured values of the first surroundings sensing device.

3. The device as recited in Claim 1, wherein the measured values of the first surroundings sensing device are used for verification and/or provision of additional information in analyzing the measured values of the second surroundings sensing device.

4. The device as recited in one of the preceding claims, wherein the longitudinal vehicle regulation provides for automatic vehicle deceleration to be triggered and/or performed to avoid a collision and/or to alleviate the severity of a collision.

5. The device as recited in one of Claims 1 through 4, wherein the first surroundings sensing device is a radar transceiver device.

6. The device as recited in one of Claims 1 through 4, wherein the first surroundings sensing device is a lidar transceiver device.

7. The device as recited in one of the preceding claims,  
wherein the second surroundings sensing device is an image detection system.

8. The device as recited in Claim 5,  
wherein the image detection system is a monocular video camera.

9. The device as recited in Claim 5,  
wherein the image detection system is a stereo video camera.

10. A device for triggering at least one deceleration device and/or one output-determining actuator element of a vehicle propulsion system, in particular for automatic longitudinal vehicle regulation,  
wherein an analyzer device receives the output signals of a first surroundings sensing device and a second surroundings sensing device, the first surroundings sensing device providing longitudinal value-optimized measured values, and the second surroundings sensing device providing object lateral extension-optimized measured values; the measured values of both the first and second surroundings sensing devices are used for object identification, and at least one deceleration device and/or at least one output-determining actuator element of a propulsion system is activated as a function of the determined surroundings situation.

11. The method as recited in Claim 10,  
wherein the longitudinal vehicle regulation provides for automatic vehicle deceleration to be triggered and/or performed to avoid a collision and/or to alleviate the severity of a collision.